



# United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER OF PATENTS AND TRADEMARKS Washington D.C. 20211 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/902,518	07/10/2001	Kegang Huang	004180/DD/BCVD	7428
32588	7590 04/22/2003			
	IATERIALS, INC.		EXAM	NER
	BLVD. M/S 2061 RA, CA 95050		LEBENTRITT	, MICHAEL
			ART UNIT	PAPER NUMBER
			2824	
			DATE MAILED: 04/22/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

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Cala Li	Application No.		Applicant(s)	
Signate ( Notice of Allowability	09/902,518		HUANG ET AL.	
Notice of Allowability	Examiner		Art Unit	
	Michael S. Leber	ntritt 2	2824	
The MAILING DATE of this communication apperatus of the communication apperatus being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHT of the Office or upon petition by the applicant. See 37 CFR 1.313  1. □ This communication is responsive to IDS filed 1/15/03.  2. □ The allowed claim(s) is/are 1,2,4-25 and 27-37.  3. □ The drawings filed on 10 July 2001 are accepted by the Extension of the continuous and the communication is made of a claim for foreign priority und and the communication of the priority documents have and the communication of the certified copies of the priority documents have and the communication of the certified copies of the priority documents have and the communication of the certified copies of the priority documents have and the communication of the certified copies of the priority documents have and the communication of the certified copies of the priority documents have and the communication of the certified copies of the priority documents have and the communication of the certified copies of the priority documents have and the communication of the foreign language provisional and the claim for domestic priority under the communication of the foreign language provisional and the claim for domestic priority under the communication of the foreign language provisional and the claim for domestic priority under the cla	ears on the cover (OR REMAINS) Coor other appropria IGHTS. This applie B and MPEP 1308.  Examiner.  Ider 35 U.S.C. § 119  Examiner been received in a  Couments have been application has been	sheet with the corr LOSED in this applicate communication we cation is subject to we should be subjected by the cation of the ca	respondence addrestion. If not include ill be mailed in due vithdrawal from issue	ed course. <b>THIS</b> e at the initiative
6. Acknowledgment is made of a claim for domestic priority under the Applicant has THREE MONTHS FROM THE "MAILING DATE" of below Failure to timely comply will result in ABANDONMENT of	f this communication this application.	on to file a reply com FHIS THREE-MONT	H PERIOD IS NOT	EXTENDABLE.
7. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which gives reas  8. CORRECTED DRAWINGS must be submitted.				IOTICE OF
(a) including changes required by the Notice of Draftsper  1) hereto or 2) to Paper No.  (b) including changes required by the proposed drawing of including changes required by the attached Examiner ldentifying indicia such as the application number (see 37 CFR 1 of each sheet. The drawings should be filed as a separate paper	correction filed 's Amendment / Co	, which has beer omment or in the Offi	n approved by the E ice action of Paper I in the top margin (n	No of the back)
9. DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT FOR T				lote the
Attachment(s)				
<ul> <li>1 ☐ Notice of References Cited (PTO-892)</li> <li>3 ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>5 ☐ Information Disclosure Statements (PTO-1449), Paper No. 10</li> <li>7 ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ul>	4☐ <u>0</u> . 6☐ 8☐		(PTO-413), Paper ment/Comment	No



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### NOTICE OF ALLOWANCE AND FEE(S) DUE

32588 7590 02.11.2003

APPLIED MATERIALS, INC. 2881 SCOTT BLVD. M/S 2061 SANTA CLARA, CA 95050 EXAMINER

LEBENTRITT, MICHAEL

ART UNIT CLASS-SUBCLASS

2824 438.798000

DATE MAILED: 02/11/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/902,518	07/10/2001	Kegang Huang	004180/DD/BCVD	7428

TITLE OF INVENTION: METHOD AND APPARATUS FOR TREATING LOW K DIELECTRIC LAYERS TO REDUCE DIFFUSION

APPLN, TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1300	\$300	\$1600	05/12/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>, THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

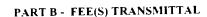
B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

 Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



Complete and send this form, together with applicable fee(s), to: Mail Box ISSUE FEE Commissioner for Patents

Washington, D.C. 20231 (703)746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note Legisly mark-up with any corrections or use Block 1)

Note: A certificate of mailing can only be used for doniestic mailings of the

02 11 2003 7590

APPLIED MATERIALS, INC. 2881 SCOTT BLVD. M/S 2061 SANTA CLARA, CA 95050

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Box Issue Fee address above, or being facsimile

icated below.	USPTO, on the date indic	itted to the USPT	transmi
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
APPLICATION NO.			004180/DD/BCVD	7428
09/902.518	07/10/2001	Kegang Huang	004180/DD/BC 1D	

TITLE OF INVENTION: METHOD AND APPARATUS FOR TREATING LOW K DIELECTRIC LAYERS TO REDUCE DIFFUSION

APPLN, TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO NO	\$1300	\$300	\$1600	05/12/2003
EXAMI	NER	ART UNIT	CLASS-SUBCLASS		
LEBENTRITT	, MICHAEL	2824	438-798000		
CFR 1.363).  Change of correspond Address form PTO/SB/1	ence address or indication of ' ence address (or Change of 22) attached. ion (or "Fee Address" Indica or more recent) attached. Us	Correspondence	2. For printing on the patent fr the names of up to 3 registered or agents OR, alternatively, (2 single firm (having as a men attorney or agent) and the na registered patent attorneys or ag is listed, no name will be printed	patent attorneys ) the name of a bler a registered mes of up to 2 gents. If no name	

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE	(B) RESIDENCE: (CITY a	nd STATE OR (	COUNTRY)	
Please check the appropriate assignee category or categories (will not be		individual	a corporation or other private group entity	☐ government
a. The following fee(s) are enclosed:	4b. Payment of Fee(s):			
□ Issue Fee	☐ A check in the amount o☐ Payment by credit card.	Form PTO-2038	is attached.	
☐ Publication Fee ☐ Advance Order - # of Copies	The Commissioner is he Deposit Account Number	reby authorized	by charge the required fee(s), or credit any o	verpayment, to
Commissioner for Patents is requested to apply the Issue Fee and Publ	ication Fee (if any) or to re-a	pply any previo	usly paid issue fee to the application identifi	ed above.
Authorized Signature) (Date)				
NOTE: The Issue Fee and Publication Fee (if required) will not be other than the applicant; a registered attorney or agent; or the as interest as shown by the records of the United States Patent and Trad This collection of information is required by \$7 CFR 1.311. The collection of information is required by \$7 CFR 1.311. The collection. Confidentiality is governed by \$5 U.S.C. 122 and \$7 CFR estimated to take 12 minutes to complete, including gathering, prepared to the CSPTO. Time will vary dependents on the amount of time you require to consuggestions for reducing this burden, should be sent to the Chief Patent and Trademark Office, U.S. Department of Commerce, Was NOT SEND FEES OR COMPLETED FORMS TO THIS Commissioner for Patents, Washington, DC 20231.	information is required to c USPTO to process) an R 1.14. This collection is aring, and submitting the ding upon the individual implete this form and or leavement of the programment of the process of t			

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09.902.518	07.10 2001	Kegang Huang	004180 DD BCVD	7428
-	02.11.2002		EXAMIN	EK
32588 75 APPLIED MATE	90 02 11 2003 ERIALS, INC.		LEBENTRITT,	MICHAEL
2881 SCOTT BLV SANTA CLARA, G	D. M/S 2061		ART UNIT	PAPER NUMBER
Shirin Chinai,			2×24	
			DATE MAILED: 02/11/2003	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 17 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 17 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.



## United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER OF PATENTS AND TRADEMARKS Washington D.C. 2021

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09 902.518	07:10:2001	Kegang Huang	004180 DD BCVD	7428
			EXAMINI	ER
32588 75 APPLIED MATE	RIALS, INC.		LEBENTRITT,	MICHAEL
2881 SCOTT BLVI SANTA CLARA, (			ART UNIT	PAPER NUMBER
UNITED STATES			2824	
			DATE MAILED: 02/11/2003	

# Notice of Fee Increase on January 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after January 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on January 1, 2003. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Final Rule, 67 Fed. Reg. 70847, 70849 (November 27, 2002).

The current fee schedule is accessible from: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after January 1, 2003 (or mailed with a certificate of mailing on or after January 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.